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The USENIX Association Newsletter

Volume 7 Number 6 December 1982

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The deadline for submissions for the February issue of *;login:* is February 11

NOTICE

;login: is the official newsletter of the USENIX Association, and is sent free of charge to individual and institutional members of the Association.

The USENIX Association is an organization of AT&T licensees and sub-licensees formed for the purpose of exchanging information and ideas about the UNIX* operating system and the C programming language. It is a not-for-profit corporation incorporated under the laws of the State of Delaware. The officers of the Association are:

President	Lou Katz	Directors	Bruce S. Borden
Vice-President	John L. Donnelly		Alan G. Nemeth
Secretary	Lewis Law		Deborah K. Scherrer
Treasurer	Thomas Ferrin		Waldo M. Wedel

The Executive Director of the Association and Editor of *;login:* is Tom Strong.

Membership information can be obtained from the Association Office:

USENIX Association
P.O. Box 7
El Cerrito, CA 94530
(415) 528-UNIX

Members of the UNIX community are heartily encouraged to contribute articles and suggestions for *;login:*. Your contributions may be sent to the editor electronically at

ucbvax!g:usenix

or through the US mail to the Association Office at the address above. The USENIX Association reserves the right to edit submitted material.

;login: is produced on UNIX using *troff* and a variation of the −me macros. We appreciate receiving your contributions in *n/troff* input format, using any macro package. If you contribute hardcopy articles please leave left and right margins of 1" and a top margin of 1½" and a bottom margin of 1¼". Hardcopy output from a line printer or most dot-matrix printers is not reproducible.

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UNICOM — The Winter Technical Meeting

The next technical conference of the USENIX Association will be a joint meeting with /usr/group and the Software Tools Users Group. It is called UNICOM and will be held in San Diego, California, Tuesday, January 25 through Friday, January 28, 1983, at the Town and Country Hotel. The meeting is being hosted by the University of California at San Diego. The meeting agenda and schedule of sessions is printed elsewhere in this issue of *;login:*.

The meeting registration packet was mailed to an extensive list November 22. If you did not receive the it or need registration and/or accommodation information contact:

Judy DesHarnais
UNICOM
P.O. Box 385
Sunset Beach, CA 90742
(213) 592-3243

Schedule of UNICOM Sessions

Time	Wednesday		Thursday		Friday	
8.30			**T1A** Bell Labs Reports *Tague*	**T1B** Office Environment *Muller*	**F1A** Graphics *Cohen*	**F1B** New UNIX Implementations II *Carter*
8.45	Intro remarks					
9.00	**Keynote Address** *Mashey*					
10.00	Break					
10.30	**W2** News from AT&T, DEC, Sun, USENIX, /usr/group, etc. *Stettner*		**T1A** (Continued) *Tague*	**T2B** New UNIX Implementations I *Patterson*	**F2A** New UNIX Implementations III *O'Brien*	**F2B** Marketing and Venture Capital *Martin*
12.00	Lunch					
1.30	**W3A** Performance *Miller*	**W3B** Languages and Programming Environments *Yao*	**T3A** Languages *Appelbe*	**T3B** Novel Applications of UNIX *McGinness*	**F3** Portability *O'Dell*	
3.00	Break					
3.30	**W4A** Networks *Noel*	**W4B** Development Tools *Tuthill*	**T4A** Technical Reports *Tannenbaum*	**T4B** Database Systems *Sippl*	**F4** Standardization *Carter*	
5.00	End					

Tentative Agenda for UNICOM

W1 Welcoming Remarks and Keynote Address

"Software Army on the March"
John Mashey, Bell Labs

W2 News from ...

Armando Stettner, chair

So far, we have USENIX, /usr/group, AT&T, DEC, and Sun

W3A Performance Enhancement and Measurement

Terrence Miller, chair

"An implementation of the *vfork* system call for PDP-11 UNIX"
Michael Karels, UC Berkeley

"Improved Schedulers for Non-Paged UNIX Systems"
Darwyn Peachey, Hospital Systems Support Group

"Contiguous Load Modules for UNIX"
Steve Zucker, Interactive Systems Corporation

"Handling Very Large Programs on a 16 Bit Super-micro"
Mitch Bishop, Zilog, Inc.

"UNIX System III and 4.1BSD; A Practical Comparison"
John Chambers & John Quarterman, University of Texas

W3B Languages and Programming Environments

Joseph Yao, chair

"UNIX APL"
Joseph Yao, SAI

"SOLID - System for On-Line Information Development"
John R. Mashey, Bell Labs

"The VMS C Compiler"
Jean Wood, DEC

"Q'Nial: a new interactive programming system for the UNIX community"
M. A. Jenkins, Queen's University

W4A Networks

Greg Noel, chair

"The Plexus Networked UNIX"
Monte Pickard, Plexus Computers, Inc.

"CSNET Status Report"
Brendan Reilley, University of Delaware

W4B Development Tools

Bill Tuthill, chair

"Bibliographic Database System"
Jim Moyer, UC San Francisco

"Development of *refer*: Bug Fixes and Enhancements"
Bill Tuthill, UC Berkeley

"RAPID: a Tool for Building Interactive Information Systems"
Anthony I. Wasserman & David T. Shewmake, UC San Francisco

"COBOL Compiler Construction Experiences Using *lex* and *yacc*"
Robert E. Conant & Herbert G. Mayer, Burroughs Corp.

T1A Bell Labs Reports
Berkley Tague, chair

"UNIX System Product Definition"
Don Cragun, Bell Labs

"UNIX Software Generation Systems"
D. J. Kretsch, Bell Labs

"UNIX File System Evolution"
Larry A. Wehr, Bell Labs

"The Evolution of UNIX System Performance"
Jerome Feder, Bell Labs

T1B UNIX in the Office Environment
Keith Muller, chair

"A Friendly Text Processing Environment"
Arthur Zemon, TRW

"UNIX Time-sharing Menu-driven Office System for Terminals (UTMOST)"
James A. Neyer, Perkin-Elmer

"A Uniform and Simple User Interface to UNIX"
Spencer Rugaber, Interactive Systems Corporation

"Writing User Documentation for UNIX Systems"
Sandra L. Emerson, Yates Ventures

"An Office Management System that Exploits UNIX Strengths"
Paul Croft, UC San Diego

T2B New UNIX implementations I
David Patterson, chair

"Hewlett-Packard's Entry into the UNIX Community"
Frederick W. Clegg, Hewlett-Packard

"4.2BSD on the Sun Workstation"
Tom Lyon & Bill Shannon, Sun Microsystems, Inc.

"Experiences in Porting 4.1BSD UNIX to the λ750 VLSI Development System"
Paul Chen, Metheus Corporation

"UNIX on Apollo Computers (Yet Another UNIX Emulation)"
Eric R. Shienbrood, Apollo Computer, Inc.

T3A Programming Languages and Evironments
Bill Appelbe, chair

"Work in Progress: UNIX System Ada Programming Support Environment"
J. Eli Lamb, Bell Labs

"UNIX Logo"
Brian Harvey, Atari, Inc.

"List Processing in C"
L. V. Ackerman, Fred B. Thelander, Henry Ford Hospital

"A Global Optimizing C Compiler"
George Powers, Zilog, Inc.

T3B Novel Applications of UNIX
Jim McGinness, chair

"ARIEL: An Experimental UNIX-based Interactive Video Information System"
R. C. Haight & D. B. Knudsen, Bell Labs

"Development of a Digital Simulation System in a UNIX environment"
William E. Raves & James Cassidy, Computer Automation

"UNIX Research at Lucasfilms"
Jim Lawson, Lucasfilms

T4A Technical Reports
Andy Tannenbaum, chair

"UNIX for the STD bus"
Luigi Cerofolini, University of Bologna

"Ctrace - A Portable Debugger for C Programs"
J. L. Steffen, Bell Labs

"A PDP-11 UNIX System with 4.1 BSD VAX-11-style Filesystems"
D. Seeley, UC San Diego

"The IS/1 Workbench for VAX/VMS"
William Torcaso, Interactive Systems Corporation

T4B Database Systems
Roger Sippl, chair

"The Intel Data Base Processor (iDBP) and IS/3"
John R. Levine, Interactive Systems Corporation

"The DB Relational Database Management System"
J. Robert Ward, International Institute For Applied Systems Analysis

"/rdb: A Relational Data Base Management System for UNIX"
Rod Manis, Computer Consulting

"Microprocessors for Biomedical Research Database Management and Analysis"
F.W. Stitt, Clinical Data Research Services, Inc.

"FOCUS, a Visually Oriented Database Browser"
Tony Wasserman, University of California

F1A Graphics
Phil Cohen, chair

"Windows with 4.2BSD"
Steven R. Evans, Sun Microsystems, Inc.

"Graphics Standards for Personal Workstations"
Michael Shantz, Sun Microsystems, Inc.

"Device Independent Graphics Enhancements"
Greg Hidley, ITT DCD

"Terminal-Independent Plotting Packages: An Example and Suggestions for Standards"
Don Mackay, UC San Diego

F1B New UNIX Implementations II
Joel Carter, chair

"EUNICE"
Joel Carter, The Wollongong Group

"REGULUS, a Real-Time UNIX Look-alike"

Bill Allen, Alcyon

"UNIX for the NS16032"
Paul Neelands, Human Computing Resources Corporation

"The Port of UNIX to the Gould 32/27"
Jack Blevins, Gould, Inc.

"UNIX Enhancements for Real-Time Applications"
Kent Blackett, MASSCOMP

F2A New UNIX Implementations III
Mike O'Brien, chair

"Porting UNIX"
P. Verbaeten, Katholieke Universiteit Leuven

"UNIX on the National Semiconductor NS16032"
Glenn C. Skinner & Bill Jolitz, National Semiconductor

"UNIX for the Computer Automation 4/95"
Steve Pozgaj, Human Computing Resources Corporation

"Porting UNIX to the NCR 9000"
Bill Appelbe & Greg Noel, NCR

F2B Marketing and Venture Capital
Marlene Martin, chair

F3 Portability
Mike O'Dell, chair

"Portability in the UNIX World"
Mike O'Dell, Lawrence Berkeley Laboratory

"A Tutorial on C Portability"
Michael Tilson, Human Computing Resources Corporation

"IS/3: A Compatible Extension of UNIX System III"
Steven Zucker, Interactive Systems Corporation

F4 Standardization
Joel Carter, chair

Boston and San Diego Meeting Proceedings

The Boston meeting proceedings are now available. They are over 350 pages long and cost $25 per copy, with an additional charge of $10 per copy for overseas postage. The Boston proceedings will be available at the /usr/group table at UNICOM or may be ordered by mail from:

/usr/group
PO Box 8570
Stanford, CA 94305

Payment for the Boston proceedings must accompany the order; make checks payable to "/usr/group".

The San Diego meeting conference proceedings will cost $15 per copy for members of USENIX, /usr/group, or Software Tools Users Group, or $20 for non-members. There is an additional charge of $5 per copy for overseas postage. The San Diego proceedings may be ordered near the registration

desk at UNICOM. They may also be ordered from:

Software Tools Users Group
1259 El Camino Real, #242
Menlo Park, CA 94025
Attn: UNICOM Proceedings

The deadline for ordering the San Diego proceedings is the end of February, 1983. Payment for the San Diego proceedings must accompany the order; make checks payable to "Software Tools Users Group".

The Toronto Meeting

The Summer, 1983, technical meeting will be held the week of July 11 in Toronto, Ontario, Canada, at the Harbour Castle Hilton Hotel. The host of the meeting will be Human Computing Resources Corporation.

Comments on the AT&T UNIX Videotapes

I just finished viewing two videotape shorts from Bell Laboratories about the UNIX system. The first was titled "Making Computers Easier to Use" and the second was "Making Computers More Productive". Both shorts were friendly, well organized and professional.

The first short is a folksy pitch to the beginning programmer, or upper-level manager, describing how Bell has made computers easier to use by providing UNIX. The famous names of UNIX from Bell present a collage of short lectures and demonstrations to describe in elementary terms the simple and easy nature of UNIX.

The second short is a more detailed version of the first that emphasizes the point that "easier to use is more productive". It presents several more esoteric application examples that show the productive powers of UNIX.

Both shorts are mild advertisements for UNIX from Bell, and like many good advertisements, they have some instructional value. The uninitiated will clearly be impressed and even converted; the UNIX aficionado will be entertained.

I was reminded of how I felt a couple of years ago after seeing a video short of robots building cars in Japan — for Bell to make this pitch about UNIX is also just a little frightening.

Sam Penny

Each videotape comes with a 2-page descriptive sheet that includes an overview, a statement of the objectives and intended audience and a bibliography. They are available in the following formats: ¾" U-matic, BETA, VHS, PAL and SECAM. The videotapes are available for purchase only. For further information contact:

John Francis
M.G.S.
619 West 54th Street
New York, NY 10019
(212) 765-4500

USENIX Office Report

Institutional Memberships and Software Distribution Tapes

The Office has been working on distributing 1982 software tapes to new Institutional members and completing the distribution of 1981 and 1982 tapes that had not been sent by the previous Office due to licensing or release form problems. If you are an Institutional member and have not received your 1982 tape, please contact the office. A discussion of the contents of the 1982 tapes may be found on page 8 of the June, 1982, issue of *;login:*.

Before the Office can send a distribution tape containing source code covered by AT&T non-disclosure agreements to an Institutional member we must verify the type and UNIX version of the license and the CPU type, serial number and location. Normally this is done by requesting copies of the pages of the license that state these things, plus a copy of the signature page. In addition the Office must also have received two signed copies of the USENIX release form for that distribution tape.

The 1983 Institutional membership application form is being revised in order to reduce the amount of paperwork required to verify licensing and secure release forms for software distribution tapes. Institutional applications will be mailed to the institutional delegate of all Institutional members in January. The mailing may include release forms for the 1983 distribution tape, which will contain software submitted at Boston and San Diego.

If you do not know who your institutional delegate is or because of personnel changes feel mail to the former delegate is not being received by the appropriate person, or if you are in doubt as to whether the Office has up-to-date copies of licensing information for your institution, please contact the Office or drop by the USENIX table at UNICOM.

There are 295 Institutional members of the USENIX Association for 1982.

Individual Memberships

The Board of Directors, at its last meeting, voted to increase the annual dues for Individual and Public members to $30. This increase was adopted to bring membership dues more nearly in line with the cost of producing the newsletter. For members attending the USENIX conferences, the new membership discount for registration will partly offset this increase.

The Office is still receiving membership applications for 1982, and 1983 Individual membership applications have begun to come in. There is a 1983 Individual membership form at the end of this issue of *;login:*.

To date there are 407 Individual and Public members of the USENIX Association for 1982.

USENIX Office at UNICOM

The Office will have a table near the registration desk at UNICOM to handle 1983 memberships and to answer questions and problems.

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The tentative schedule for 1983 issues of *;login:* is:

late-February	
April	San Diego meeting notes
mid-June	pre-meeting announcements
mid-August	
October	Toronto meeting notes
early-January	pre-meeting announcements

Tom Strong
Executive Director

Local UNIX Users Groups

The Office would appreciate receiving information (and reports?) on local UNIX users groups. We receive many questions about where to meet other people who are using UNIX. If your group would be willing for the Office to give out information on how to contact it, or would like such information printed in *;login:*, please contact the Office.

USENIX Association

Application for Individual or Public Membership
For Calendar Year 1983

Please type or print very clearly

[ ] New

[ ] Renewal [ ] With changes to existing USENIX records

Old address: _____

_____

_____

_____

[ ] Individual Membership: $30

[ ] Non-Disclosure covered by institution with source license

[ ] Non-Disclosure covered by institution with binary license

Institutional affiliation: _____

Nature of affiliation: _____

[ ] Public Membership (Not covered by Non-Disclosure): $30

Mailing address:

Your name: _____

_____

_____

_____

_____

Phone: (_____) _____

Network address: _____

[ ] Overseas airmail, add $9.00

[ ] Invoice required, add $6.00 bookkeeping charge

Check enclosed: $_____

Return completed form to:

USENIX Association
P.O. Box 7
El Cerrito, CA 94530

You will receive a card acknowledging your membership as soon as it is processed.

December 1982

Office Use Only

Name: .....

Check #: .....

Mem #: .....

Date: .....

USENIX Association
P.O. Box 7
El Cerrito, CA 94530

First Class Mail

UNICOM Agenda

1983 Individual Membership
Application Form Enclosed